

LCD TV

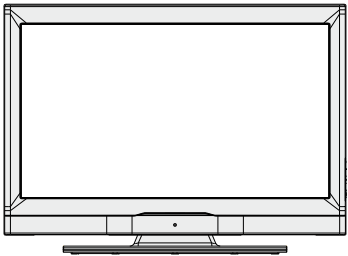
approx. 80cm / 32" screen size



Features

- Remote controlled colour LCD TV.
- Fully integrated Terrestrial digital TV (DVB-T - MPEG-2, MPEG-4).
- HDMI connectors for digital video and audio.
- USB input.
- 1000 programmes (analogue+digital).
- OSD menu system.
- Integrated tuner MPEG 2 compatible.
- Scart socket for external devices.
- Stereo sound system. (German+Nicam)
- Teletext, fastext, TOP text.
- Headphone connection.
- Automatic programming system.
- Forward or backward manual tuning.
- Sleep timer / Child lock.
- Automatic sound mute when no transmission.
- NTSC playback.
- AVL (Automatic Volume Limiting).
- Auto power down.
- PLL (Frequency Search).
- PC input.
- Plug&Play for Windows 98, ME, 2000, XP, Vista, Windos 7.
- Game Mode

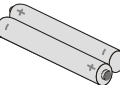
Scope of delivery



LCD-TV



Remote control



Batteries: 2 X AAA

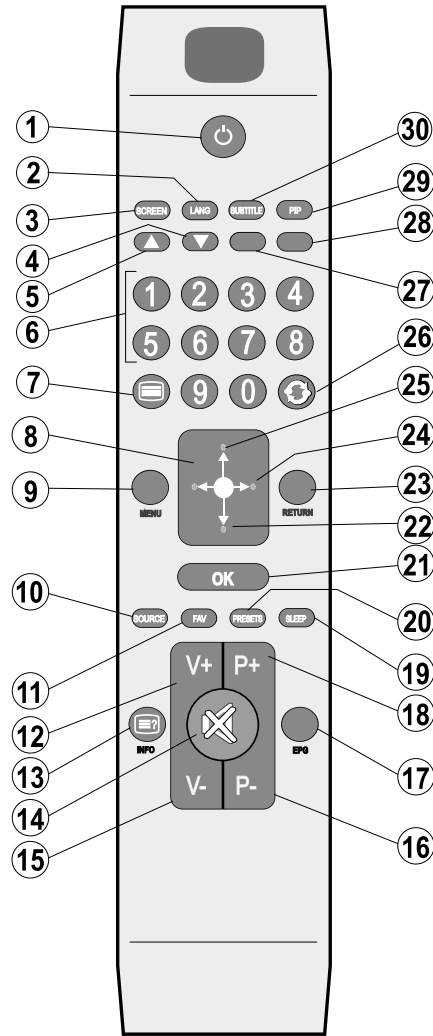


Instruction Book and Warranty information

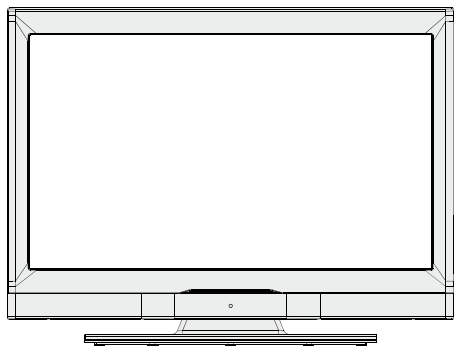
NOTE: You should check the accessories after purchasing. Make sure that each accessory is included.

Remote Control Buttons

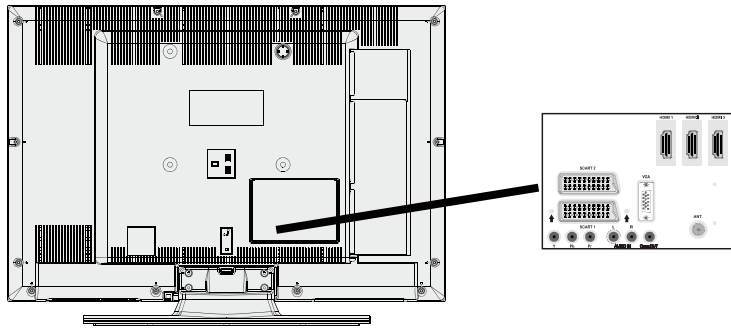
1. Standby
2. Mono/Stereo - Dual I-II / Current Language (in DVB channels)
3. Image size / Zooms videos (in Media Browser video mode)
4. Green buttonList Schedule(in EPG)/Tag/Untag All(in favourite list)/Play-Slideshow(in Media Browser)
5. Red button/Stop(in Media Browser)
6. Numeric buttons
7. Teletext / Mix(in TXT mode)
8. Cursor Left / Subpage (in TXT mode)
9. Menu on-off
10. AV / Source selection
11. Favourite Mode Selection(in DVB channels)
12. Volume Up
13. Info / Reveal (in TXT mode)
14. Mute
15. Volume Down
16. Programme Down / Page up(in DVB channels)
17. Electronic programme guide(in DVB channels)
18. Programme Up / Page down(in DVB channels)
19. Sleep Timer
20. Picture mode selecion. / Changes picture mode (in Media Browser video mode)
21. Okay (Confirm) / Hold (in TXT mode)/ Edit Channel List
22. Cursor Down
23. Exit / Return / Index page (in TXT mode)
24. Cursor Right / Subpage (in TXT mode)
25. Cursor Up
26. Previous programme
27. Yellow button/Pause (in Media Browser)/ Timeline Schedule(in EPG)
28. Blue button/Edit Channel List/Filter (In Favourite List&EPG)/Loop-Shuffle (in Media Browser)
29. No function
30. Subtitle on-off (in DVB channels)



LCD TV and Operating Buttons



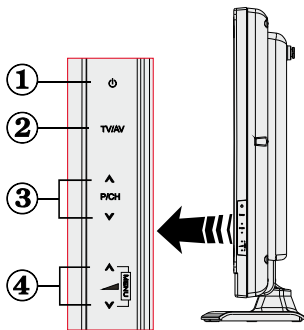
FRON VIEW



BACK

SIDE VIEW

CONTROL BUTTONS



1. Standby/On button
2. TV/AV button
3. Programme Up/Down buttons
4. Volume Up/Down buttons

Note: Press “” and + buttons at the same time to view main menu.

Manufacturer's guarantee GB

We are glad that you have decided to buy one of our products and hope you have a great deal of fun with this high-quality product. Our strict production control guarantees the high quality of our devices. However, if you should have just cause for complaint, we grant you a guarantee for a period of

3 years

from purchase date with the following conditions:

1. This guarantee leaves your statutory warranty claims as a consumer unaffected vis-à-vis the party who sold the device. These rights are not restricted by the manufacturer's guarantee issued by us.
2. The guarantee granted by us is only valid for the private use of the device and is restricted to the territory of the Great Britain
3. The period of guarantee is 3 years from the purchase date.
4. During the period of guarantee, our specified performance includes, at our discretion, the repair of your device or its replacement by an equivalent device, the wages incurred for us, the material costs and the transport costs of the device within the Great Britain
5. To lodge your complaint, please contact us at the following service number:



We recommend that you keep the original packaging in order to ensure the secure transport of the device in the event that you assert the guarantee. A short description of your complaint is not only very helpful to us but supports the quick repair and return delivery of the device. We recommend in advance that you call our hotline.

6. You must keep your proof of purchase. It is sufficient if you return the original till receipt with the device. Without proof of purchase, we unfortunately cannot provide the specified performances free-of-charge. If we receive a device without proof of purchase, we will send you a cost estimate for the repair. If you decide against a repair, we will return the device and charge you a set fee for transport and for the processing of the cost estimate.

Important document! Please retain the proof of purchase for 3 years.

7. Exchanged parts are kept in our service centre and are destroyed at our discretion.
8. The guarantee becomes invalid if the device has been opened by you or by a third person not authorized by us and/or if modifications have been made to the device.
9. A guarantee claim does not exist:
 - in cases of improper care
 - in cases of mechanical damages to the device from outside
 - in the case of transport damages
 - in the case of wear and tear
 - in the case of handling errors
 - if the device has been set up in damp rooms or in the open air
 - for damage that has been caused by force majeure, water, lightning, over-voltage
 - in cases of excessive use, especially for use other than private
 - in cases where the operating instructions have been falsely observed.
 - if the device does not have any technical defects.
 - if there are pixel errors that lie within the tolerances specified in ISO standard 9241-307:2008-11 (pixel error class II).
10. The guarantee does not include any further liability on our part, in particular, it does not include the liability for damages that have not occurred on the device itself or that occur due to the breakdown of the device until repair (e.g. shipping costs, handling costs, etc.). However, our statutory liability, in particular with respect to the product liability law, is not restricted or exclude hereby.
11. Warranties granted by us do not extend the period of guarantee of 2 years from purchase date, not even with regard to components which may have been changed.
12. To validate your claim and to ensure the quickest possible processing of it, please always send us the entire package contents including all accessories. (e.g. remote control, supports, wall brackets, A/V cable, etc.)

We wish you lots of fun with your new device!

Important document! Please retain the proof of purchase for 3 years.

Contents

Instruction Book Information	1	Managing Stations: Sorting Channel List	14
Introduction	2	On-Screen Information	14
Proper operation	2	Media Playback Using Media Browser	14
Preparation	2	Viewing Videos via USB	14
Symbols in this Instruction Book	2	Playing Videos via USB	15
Safety Precautions	2	Viewing Photos via USB	15
Environmental Information	4	Media Browser Settings	16
Repair Information	4	Changing Image Size: Picture Formats	16
Viewing the Back side Connections	5	Configuring Picture Settings	17
Viewing the Connections - Side Connectors	6	Operating Picture Settings Menu Items	17
Power Connection	6	Picture Settings Menu Items	17
Aerial Connection	6	PC Picture Settings	18
Using Digital Multimedia Connectors	7	Configuring Sound Settings	18
Connecting the LCD TV to a PC	7	Operating Sound Settings Menu Items	18
Connecting to an external device	7	Sound Settings Menu Items	19
Side HDMI Connection	8	Configuring Your TV's Settings	19
Using Side Connectors	8	Operating Settings Menu Items	19
Remote Control	8	Settings Menu Items	19
Inserting Batteries	8	Using a Common Interface Module	20
Switching On/Off	8	Viewing Conditional Access Menu	20
To Switch the TV On	8	Configuring Language Settings	20
To Switch the TV Off	8	Parental Control	21
Basic Operations	8	Parental Settings Menu Operation	21
Operation with the Buttons on the TV	8	Timers	21
Setting of the main menu	8	Setting Sleep Timer	21
Volume Setting	9	Setting Programme Timers	21
Programme Selection	9	Adding a Timer	21
AV Mode	9	Editing a Timer	22
Operation with the Remote Control	9	Deleting a Timer	22
Volume Setting	9	Configuring Date/Time Settings	22
Programme Selection (Previous or Next		Configuring Source Settings	22
Programme)	9	Configuring Other Settings	22
Programme Selection (Direct Access)	9	Operation	22
First Time Installation	9	Other Features	23
Input Selection	10	Teletext	24
Viewing Electronic Programme Guide (EPG)	10	Tips	24
Installation	11	Appendix A: PC Input Typical Display Modes	25
Automatic Channel Scan (Retune)	12	Appendix B: AV and HDMI Signal Compatibility	
Manual Channel Scan	12	(Input Signal Types)	25
Manual Search - Digital	12	Appendix C: Supported File Formats for USB	
Analogue Search - Analogue	12	Mode	26
Analogue Fine Tuning	12	Appendix E: Software Upgrade	26
Managing Stations: Channel List	12	Specifications	27
Operating the Channel List	13	Digital Reception (DVB-T)	27
Moving a Channel	13	Definitions of Important Terms	28
Deleting a Channel	13	Important Instruction	29
Renaming a Channel	13		
Locking a Channel	13		
Managing Stations: Favourites	13		
Button Functions	13		

Instruction Book Information

- Silvercrest LCD-TV32111
- Version 1.24.11.10

Introduction

Read the corresponding instructions of this handbook prior to the first usage of the device, even when the usage of electronic devices is familiar to you. Notice especially the chapter **SAFETY PRECAUTIONS**. Carefully keep the handbook as future reference. When selling the device or giving it away, absolutely give these direction for use.

Thank you for choosing this product. This manual will guide you for the proper operation of your TV. Before operating the TV, please read this manual thoroughly. Keep this manual in a safe place for future references.

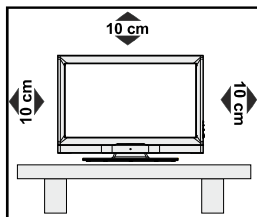
Proper operation

This device is intended to receive and display TV programs. The different connection options make an additional expansion of the reception and display sources possible (various external devices). This device is only suitable for the operation in dry interiors. This appliance is intended solely for private domestic use and may not be used for industrial and commercial purposes. We exclude liability in principle, if the device is not used as intended, or unauthorized modifications have been made. To operate your LCD TV in extreme ambient conditions may cause the damage of the device.

Preparation

Place the device on a solid even surface. For ventilation, leave a free space of at least 10 cm all around the set. To prevent any fault and unsafe situations, please do not place any objects on top of the set. Use this device in moderate climates.

Operation temperature and operation humidity: 5°C up to 45°C, 85% rel. humidity max. (not blocking ventilation openings).



Symbols in this Instruction Book

The following symbols are used in the manual as a marker for restrictions and precautions and safety instructions. Please note such information for security reasons.

WARNING


If you do not pay attention to such a marked warning, it can cause serious injury or death. Please note these warnings strictly, in order to ensure a safe operation.

CAUTION

Such a precaution is marked, you should take up or note, to avoid injury or property damage. Please note these instructions strictly, in order to ensure a safe operation.

IMPORTANT

Warnings on the appliance and restrictions are displayed like this. Please read this information strictly in order to operate the system correctly and avoid damage.

 **NOTE:** Information about the operation and additional explanations are marked like this. To be aware of such information is recommended to ensure that the functions can be used optimally.

Safety Precautions

Read the following recommended safety precautions carefully for your safety.

Power Source

The TV set should be operated only from a 220-240 V AC, 50 Hz outlet. Ensure that you select the correct voltage setting for your convenience.

Power Cord

Do not place the set, a piece of furniture, etc. on the power cord (mains lead) or pinch the cord. Handle the power cord by the plug. Do not unplug the appliance by pulling from the power cord and never touch the power cord with wet hands as this could cause a short circuit or electric shock. Never make a knot in the cord or tie it with other cords. The power cords should be placed in such a way that they are not likely to be stepped on. A damaged power cord can cause fire or give you an electric shock. When it is damaged and needs to be replaced, it should be done by qualified personnel.

Moisture and Water

Do not use this device in a humid and damp place (avoid the bathroom, the sink in the kitchen, and near the washing machine). Do not expose this device to rain or water, as this may be dangerous and do not place objects filled with liquids, such as flower vases, on top. Avoid from dripping or splashing.



If any solid object or liquid falls into the cabinet, unplug the TV and have it checked by qualified personnel before operating it any further.

Cleaning

Before cleaning, unplug the TV set from the wall outlet. Do not use liquid or aerosol cleaners. Use soft and dry cloth.



Ventilation

The slots and openings on the TV set are intended for ventilation and to ensure reliable operation. To prevent overheating, these openings must not be blocked or covered in anyway.

Heat and Flames

The set should not be placed near to open flames and sources of intense heat such as an electric heater. Candles and other open flames must be kept away from this product at all times to prevent the spread of fire. Ensure that no open flame sources, such as lighted candles, are placed on top of the TV. Batteries should not be exposed to excessive heat such as sunshine, fire or the like.



Lightning

In case of storm and lightning or when going on holiday, disconnect the power cord and the antenna cable from the wall outlet.



Replacement Parts

When replacement parts are required, make sure that the service technician has used replacement parts, which are specified by the manufacturer or have the same specifications as the original one. Unauthorized substitutions may result in fire, electrical shock or other hazards.

Servicing

Please refer all servicing to qualified personnel. Do not remove the cover yourself as this may result in an electric shock.



Waste Disposal

- Instructions for waste disposal:

Packaging and packaging aids are recyclable and should principally be recycled. Packaging materials, such as foil bag, must be kept away from children. Batteries, including those which are heavy metal-free, should not be disposed of with household waste. Please dispose of used battery in an environment friendly manner. Find out about the legal regulations which apply in your area.

This symbol on the product or on its packaging means that your electrical and electronic device should be disposed at the end of its service life separately from your household wastes. There are separate collection systems for recycling in EU. For more information, please contact the local authority or the dealer where you purchased the product.



Disconnecting the Device

The mains plug is used to disconnect TV set from the mains and therefore it must remain readily operable.

Headphone Volume

Excessive sound pressure from earphones and headphones can cause hearing loss.



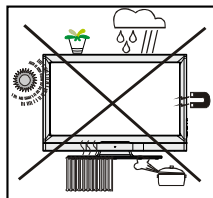
Installation

To prevent injury, this device must be securely attached to the wall in accordance with the installation instructions when mounted to the wall (if the option is available).

LCD Screen

The LCD panel is a high technology product with several millions of thin film transistors, giving you fine picture details. Occasionally, a few non-active pixels may appear on the screen as a fixed blue, green or red point. Please note that this does not affect the performance of your product.

Warning! Do not leave your TV in standby or operating mode when you leave your house.



The power switch doesn't separate this device completely from mains. Moreover the device consumes power in the standby operation. In order to separate the device completely from mains, the mains plug has to be pulled from the mains socket. Because of that the device should be set up in a way, that an unobstructed access to mains socket is guaranteed, so that in case of emergency the mains plug can be pulled immediately. To exclude the danger of fire, the power cord should principally be separated from the mains socket prior to a longer period of non-usage, i.e. during vacations.

Electrical device not in the hands of children

⚠ WARNING: Never let children use electrical device unsupervised. Children can't always recognize properly the possible dangers. Batteries / accumulators can be life threatening when swallowed. Store batteries unreachable for small children. In case of swallowing a battery medical aid has to be sought immediately. Also keep the packaging foils away from children. There is danger of suffocation.

Batteries

⚠ CAUTION: Insert the batteries / rechargeable batteries in the correct polarity. Don't try to recharge non rechargeable batteries and under no circumstances throw them into fire. Danger of explosion. Do not use unequal batteries (old and new, Alkaline and carbon, etc.) simultaneously. If you will not use the device for a long time, remove the batteries and store the device in a dry and dust free place. Improper use of batteries may cause an explosion or leakage. If the batteries have leaked, use gloves and clean the appliance thoroughly with a dry cloth!

Connection to a Television Distribution System (Cable TV etc.) from Tuner

Device connected to the protective earthing of the building installation through the mains connection or through other apparatus with a connection to protective earthing-and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard.

Connection to a cable distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11).

Environmental Information

- This television is designed to consume less energy to save the environment.

You not only help to save the environment but also you can save money by reducing electricity bills thanks to the energy efficiency feature of this TV. To reduce energy consumption, you should take the following steps:

- You can use Power Save Mode setting, located in the Menu Settings - Other Settings. If you set Power Save Mode as On, the TV will switch to energy-saving mode and luminance level of TV set will be decreased to optimum level. Note that some picture settings will be unavailable to be changed when the TV is in Power Save Mode.

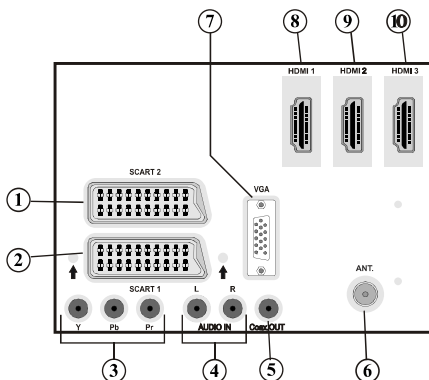




- When the TV is not in use, please switch off or disconnect the TV from the mains. This will also reduce energy consumption.
- When going away for a longer time, disconnect the TV from the mains.
- It is highly recommended to activate Power Save Mode setting to reduce your annual power consumption. And also it is recommended to disconnect the TV from the mains to save energy more when you do not use.
- Please helps us to save the environment by following these steps.

Repair Information

⚠ CAUTION: Please refer all servicing to qualified personnel. Only qualified personnel must repair the TV. Please contact your local dealer, where you have purchased this TV for further information.

Viewing the Back side Connections



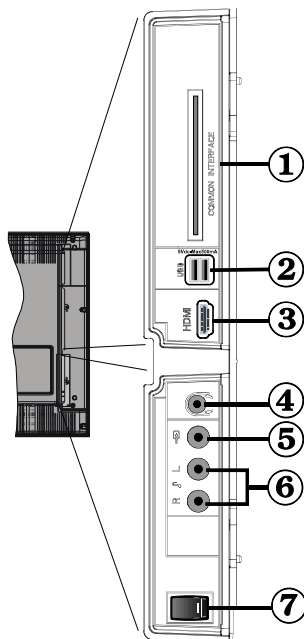
1. **SCART 2** inputs or outputs for external devices.
2. **SCART 1** input or output for external devices. Connect the SCART cable between SCART socket on TV and SCART socket on your external device (such as a decoder, a VCR or a DVD player).
 **NOTE:** If an external device is connected via the SCART socket, the TV will automatically switch to AV mode.
-  **NOTE:** S-video signal is supported via the scart socket. A scart cable is not supplied.
3. **Component Video Inputs (YPbPr)** are used for connecting component video. You can connect the component video and audio sockets with a device that has component output. Connect the component video cables between the **COMPONENT VIDEO INPUTS** on the TV and the component video outputs of your device. While connecting, be sure that the letters on your TV, “Y”, “Pb”, “Pr” correspond with your device’s connectors.
4. **PC/YPbPr Audio Inputs** are used for connecting audio signals of a PC or a device that connects to the TV via YPbPr. Connect the PC audio cable between the **AUDIO INPUTS** on the TV and audio output of your PC to enable PC audio. Connect the audio cable between **AUDIO INPUTS** on the TV and audio outputs of your device to enable component audio.
5. **S/PDIF Coaxial Out** outputs digital audio signals of the currently watched source. Use an **SPDIF coaxial cable** to transfer audio signals to a device that has S/PDIF input
6. **RF Input** connects to an aerial antenna system or cable TV connection..
 Note that if you use a decoder or a media recorder, you should connect the aerial cable through the device to the television with an appropriate antenna cable, as shown in the illustration in the following pages.
7. **PC Input** is for connecting a personal computer to the TV set.
 Use a VGA cable to connect the **PC INPUT** on the TV with the VGA output of the PC.
 To get also audio from the PC use an audio connection cable (see drawing “Connecting the LCD TV to a PC” on page 7).
8. **HDMI 1: HDMI Input**
HDMI Inputs are for connecting a device that has an **HDMI** socket. Your LCD TV is capable of displaying High Definition pictures from devices such as a High Definition Satellite Receiver or DVD Player. These devices must be connected via the HDMI sockets or YPbPr. These connections could receive 720p or 1080p signals. No sound connection is needed for an HDMI to HDMI connection (This must be supported from the connected device).
9. **HDMI 2: HDMI Input**
10. **HDMI 3: HDMI Input**

Viewing the Connections - Side Connectors

1. CI Slot is used for inserting a CI card. A CI card allows you to view all the channels that you subscribe to. For more information, see "Conditional Access" section.
2. Side USB inputs.
3. Side HDMI Input is for connecting a device that has an HDMI socket.
4. Headphone jack is used for connecting an external headphone to the system. Connect to the HEADPHONE jack to listen to the TV from headphones (optional).
5. Video Input is used for connecting video signals of external devices. Connect the video cable between the VIDEO IN socket on the TV and the VIDEO OUT jack on your device.
6. Audio Inputs are used for connecting audio signals of external devices. Connect the audio cable between the AUDIO INPUTS on the TV and the AUDIO OUTPUT jacks on your device.

Note: If you connect a device to the TV via the VIDEO INPUT, you should also connect your device with an audio cable to the AUDIO INPUTS of the TV to enable audio.

7. The Power-switch is used for turning the TV "Off" or into "Standby-Mode".



Power Connection

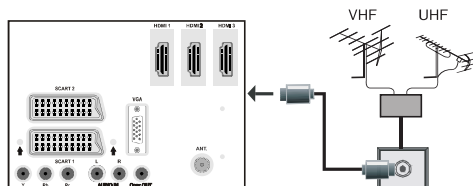


IMPORTANT: The TV set is designed to operate on 220-240V AC, 50 Hz.

- After unpacking, allow the TV set to reach the ambient room temperature before you connect the set to the mains. Plug the power cable to the mains socket outlet.

Aerial Connection

- Connect the aerial ,cable TV plug to the AERIAL INPUT socket located at the rear of the TV.

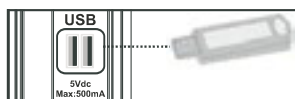


Using Digital Multimedia Connectors

- You can connect USB devices to your TV by using the USB input of the TV. This feature allows you to display/play JPG, MP3 and video files stored in a USB stick.
- It is possible that certain types of USB devices (e.g. MP3 Players) may not be compatible with this TV.
- You may back up your files before making any connections to the TV set in order to avoid any possible data loss. Note that manufacturer will not be responsible for any file damage or data loss.
- Do not pull out USB device while playing a file.

⚠ CAUTION: Quickly plugging and unplugging USB devices, is a very hazardous operation. Especially, do not repeatedly quickly plug and unplug the drive. This may cause physical damage to the TV and especially the USB device itself.

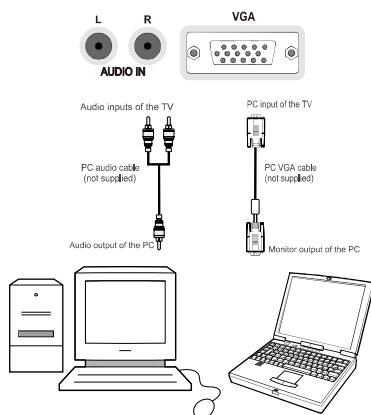
SIDE VIEW USB DEVICE



NOTE: It is possible that certain types of hard disk drives are not supported.

Connecting the LCD TV to a PC

For displaying your computer's screen image on your LCD TV, you can connect your computer to the TV set. Power off both computer and display before making any connections. Use 15-pin D-sub display cable to connect a PC to the LCD TV. When the connection is made, switch to PC source. See "Input selection" section. Set the resolution that suits your viewing requirements. Resolution information can be found in the appendix parts.



Connecting to an external device

If you want to connect a external device to your LCD TV, you can use connectors of the TV set. external devices may have different connectors. Please refer to your external device's instruction book for additional information. Power off both the TV and the device before making any connections.

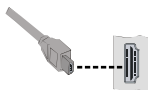
- If your external device has an HDMI socket, you can connect via HDMI. When you connect to external device as illustrated below, switch to HDMI source. See, "Input Selection" section.
- Most external devices are connected through COMPONENT SOCKETS. Use a component video cable to connect video input. For enabling audio, use a component audio cable. When the connection is made, switch to YPbPr source. See, "Input selection" section.
- You may also connect through the SCART 1 or SCART 2. Use a SCART cable.

Note: These three methods of connection perform the same function but in different levels of quality. It is not necessary to connect by all three methods.

Side HDMI Connection

You can use side HDMI input to connect a device that has an HDMI connector to your TV. Use an appropriate HDMI cable to make such a connection. Note that you should switch to the HDMI 4 source to view the content from the connected device. Power off both the TV and the device before making any connections. Side HDMI Input supports connections between HDMI devices such as DVD players. You can use side HDMI input of the TV to connect to an external HDMI device. Use an HDMI cable to connect.

HDMI DEVICE SIDE VIEW



Using Side Connectors

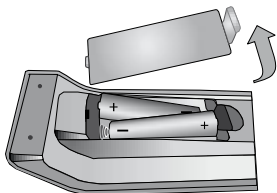
You can connect a range of optional equipment to your LCD TV..


- For connecting a camcorder, connect to the VIDEO IN socket and the AUDIO SOCKETS. For selecting the related source, see the section "Input selection" in the following parts.
- To listen the TV sound from headphones, connect to the HEADPHONE jack of the TV.

Remote Control

Inserting Batteries




- Remove the battery cover located on the back of the Remote Control by gently pulling backwards from the indicated part.
- Insert two **AAA/R3** or equivalent type batteries inside. Observe the correct polarity (+/-) when inserting batteries and replace the battery cover.



 **NOTE:** Remove the battery from remote control when it is not to be used for a long period. Otherwise it can be damaged due to any leakage of batteries. Remote range is approximately 7m/23ft.

Switching On/Off

To Switch the TV On

- Connect the power cord to the 220-240V outlet.
- Switch the "  " button to position "I" so the TV will switch automatically to standby mode. Then the standby LED lights up.
- To switch on the TV from standby mode either touch the "  " button, "P/CH▲" "P/CH▼" on the TV or press the "  ", "P+" "P-" button or a numeric button on the remote control.
- Press the - or + button of the TV.





The TV will then switch on.



NOTE: If you switch on your TV via PROGRAMME +/- buttons on the remote control or on the TV set, the programme that you were watching last will be reselected.

By either method the TV will switch on.

To Switch the TV Off

- Press the "  " button on the remote control or touch the "  " button on the TV. The device will switch to standby mode.
- Switch the "  " button to position 2 as illustrated, () so the TV will switch OFF.
- To power down the TV completely, unplug the power cord from the mains socket.









NOTE: When the TV is switched to standby mode, standby LED can blink to indicate that features such as Standby Search, Over Air Download or Timer is active.



Basic Operations

You can operate your TV using both the remote control and onset buttons.

Operation with the Buttons on the TV

Setting of the main menu

The main menu can be called through touching simultaneously buttons "  " and "  ". With the "  " and "  " buttons you can navigate through the main menu. To choose from a menu item, touch the "TV / AV". With the "P / CH▲" / "P / CH▼" buttons, you can jump through the options. To change an option, touch the TV / AV button and select the requested setting by touching the "  " or "  " buttons.

To exit the menu touch the "  " and "  " buttons simultaneously.

Volume Setting

- Touch the “▲” or “▼” buttons to increase or decrease volume. A volume level scale (slider) will be displayed on the screen.

Programme Selection

- Touch the “P/CH ▲” or “P/CH ▼” buttons to change channel. Touch the “P/CH ▲” button to select the next programme or the “P/CH ▼” button to select the previous programme.

AV Mode

- Touch the “TV/AV” button. The source OSD will be displayed in a few second. By repeatedly touching the “TV/AV” button or by touching the “P/CH ▲” or “P/CH ▼” button, you could jump through the available sources.



NOTE: If you jumped to the desired source, the device will switch automatically with a short delay to the source.

Operation with the Remote Control

- The remote control of your TV is designed to control all the functions of the model you selected. The functions will be described in accordance with the menu system of your TV.

Volume Setting

- Press “V+” button to increase the volume. Press “V-” button to decrease the volume. A volume level scale (slider) will be displayed on the screen.

Programme Selection (Previous or Next Programme)

- Press “P -” button to select the previous programme.
- Press “P +” button to select the next programme.

Programme Selection (Direct Access)

- Press numeric buttons on the remote control to select programmes between 0 and 9. The TV will switch to the selected programme. To select programmes directly, press the numeric buttons consecutively. When the pressing time is due for the second numeric button, only the first digit programme will be displayed. Press directly the programme number to reselect single digit programmes.

First Time Installation

IMPORTANT: Ensure that the aerial is connected before switching on the TV for the first time installation.

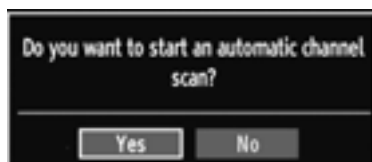
- When the TV is operated for the first time, installation wizard will guide you through the process. First, language selection screen will be displayed:



- Use “▼” or “▲” buttons to select your language and press **OK** button to set selected language and continue.
- After selecting the language, “Welcome!” screen will be displayed, requiring you to set **Country**, **Teletext Language** and **Scan Encrypted** options.



- By pressing “◀” or “▶” button, select the **country** you want to set and press “▼” button to highlight **Teletext Language** option. Use “◀” or “▶” button to select desired Teletext Language.
- Press “▼” button after setting Teletext Language option. **Scan Encrypted** will be then highlighted. You can set **Scan Encrypted** as **Yes** if you want to scan coded stations.
- Press **OK** button on the remote control to continue and the following message will be displayed on the screen:



To select the “Yes” or “No” option, highlight the item by using “◀” or “▶” buttons and press **OK** button.

Afterwards, the following OSD will be displayed on the screen and the digital television will search for digital terrestrial TV broadcasts



 **NOTE:** You can press **MENU** button to cancel.

- After all the available stations are stored, Channel List will be displayed on the screen. If LCN is available in your country, a message appears on the screen which asks you if you want to sort the channels according to LCN.
- In some countries, the order of the channels is arranged automatically by the broadcaster. This is called logical channel number (LCN). If the selected country has LCN support, the channels will be enumerated one by one, beginning from number 1. You cannot move any programme to a position after the last saved one. If you try to do this, both programmes will change their places. If LCN support is not available, you can move the channels as you wish.



- Press **OK** button to quit channel list and watch TV.

Input Selection

Once you have connected external systems to your TV, you can switch to different input sources. Press “**SOURCE**” button on your remote control consecutively for directly changing sources.

Menu Operations

You can move in the menu screen using the cursor buttons. Use Up or Down button to select a line and press Left or Right button to set a menu item.

To exit a menu screen, press **M** button. Changes are stored automatically.



Viewing Electronic Programme Guide (EPG)

Some, but not all, channels send information about the current and next events. Press **EPG** button to view the EPG menu. EPG appears on the screen. It is able to get Information of the channel - programmes weekly by means of 7-DAY-EPG. All channels are listed with their programmes. At the bottom of the screen, info bar displays all available commands.

- Press “◀”/“▶” buttons to navigate through channels.
- Press “◀”/“▶” buttons to navigate through the programme list.
- EPG menu displays available information on all channels.
- Please note that event information is updated automatically. If there are no event information data available for channels, EPG is displaying **No Information**.



OK (Options): Displays programme options including “**Select Channel**” and “**Set Timer for Programme**”.

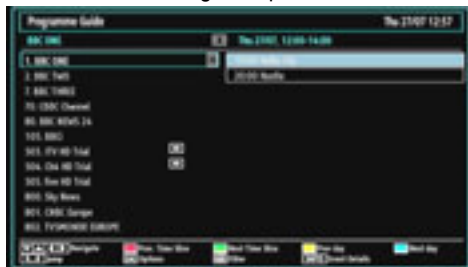
- **Select channel:** allows you to jump directly to the selected channel.
- **Set timers for programme:** With this option, the device automatically switches to the programmed programme.

INFO (Event Details): Displays the programmes in detail. If available, this option views the details of the selected channel.

Green button: Programme schedule will be listed. You can list programmes according to schedule by pressing green button.

Yellow button (time schedule): Display EPG data in accordance with timeline schedule.

Blue button (Filter): Views filtering options. You can sort the channels using this option.



Programme Schedule (Green Button)

Red button (Prev Time Slice): Displays the programmes of previous time slice.

Green button (Next Time Slice): Displays the programmes of the next time slice.

Yellow button (Prev Day): Displays the programmes of previous day.

Blue button (Next day): Displays the programmes of the next day.

Numeric buttons (Jump): Jumps to the preferred channel directly via numeric buttons.

OK (Options): Displays programme options including **"Select Channel"** and **"Set Timer for Programme"**.

- **Select channel:** allows you to jump directly to the selected channel.
- **Set timers for programme:** With this option, the device automatically switches to the programmed programme.

Text button (Filter): This feature helps you search channels. You can search by a list of options.

INFO (Details): Displays the programmes in detail.



Timeline Schedule (Yellow Button)

Red button (Prev Day): Displays the programmes of previous day.

Green button (Next day): Displays the programmes of the next day.

Yellow button (Zoom): Expands programme information.

Blue button (Filter): Views filtering options. You can filter guide information by TV/Radio, Free/CAS*, A-Z or Sort from channel list by pressing blue button.

(*CAS=encrypted channels).

INFO (Event Details): Displays the programmes in detail.

Numeric buttons (Jump): Jumps to the preferred channel directly via numeric buttons.

OK (Options): Displays programme options including **"Select Channel"** and **"Set Timer for Programme"**.

- **Select channel:** allows you to jump directly to the selected channel.
- **Set timers for program:** With this option, the device automatically switches to the programmed programme.

Text (Search): Displays **"Guide Search"** menu. This feature helps you search channels. You can search by a list of options.

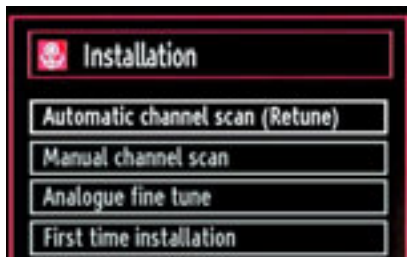
SUBTTL: Press **SUBTITLE** button to view Select Genre menu. Using this feature, you can search the programme guide database in accordance with the genre. Info available in the programme guide will be searched and results matching your criteria will be listed.

■ (Now) : Shows the current programme.

Installation

TIP: The installation function helps you to find and store all available channels.

Press **MENU** button on the remote control and select **Installation** by using **"◀"** or **"▶"** button. Press **OK** button and the following menu screen will be displayed.



Select **Automatic Channel Scan (Retune)** by using “▼”/“▲” button and press **OK** button. Automatic Channel Scan (Retune) options will be displayed. You can select **Digital**, **Analogue** or **Full Aerial-Analogue** tuning using “▼”/“▲” and **OK** buttons.

Automatic Channel Scan (Retune)

Digital: Searches and stores aerial DVB stations.

Analogue: Searches and stores analogue stations.

Full: Searches and stores both analogue and aerial DVB stations.

- Whenever you select an automatic search type and press **OK** button, a confirmation screen will appear on the screen. To start installation process, select **Yes**, to cancel select **No** by using “◀” or “▶” and **OK** button.
- After auto channel scan type is set and selected and confirmed, installation process will start and progress bar will move along. Press **MENU** button to cancel process. In such a case, located channels are not stored.

Manual Channel Scan

HINT: This feature can be used for direct broadcast entry.

- Select **Manual Channel Scan** from the Installation menu by using “▼”/“▲” and **OK** buttons. Manual Scan options screen will be displayed.
- Select the desired **Search Type** using “◀” or “▶” button. Manual search options will change accordingly. Use “▼”/“▲” button to highlight an item and then press “◀” or “▶” button to set an option. You can press **MENU** button to cancel.

Manual Search - Digital



In manual channel scan, the number of the multiplex or frequency are entered manually and only that multiplex or frequency are searched for the channels. After selecting search type as **Digital**, you can enter the frequency number using the numeric buttons and press **OK** button to search.

Digital terrestrial TV (DTT) is broadcast in multiplexes. A multiplex is a group of channels that are all broadcast on the same frequency. TV broadcasts,

radio programmes and EPG data are available within the multiplex.

Analogue Search - Analogue



After selecting search type as analogue, you can use “▼”/“▲” button to highlight an item and then press “◀” or “▶” button to set an option.

Enter the channel number or frequency using the numeric buttons. You can then press **OK** button to search. When the channel is located, any new channels that are not on the list will be stored.

Band: You can choose between C and S.

TV system: you can choose from BG, I, DK, L, LP.

Analogue Fine Tuning

- Select **Analogue Fine Tuning** from the Installation menu by using “▼” or “▲” and **OK** buttons. Analogue fine tune screen will be displayed. Analogue Fine Tune feature will not be available if there are no analogue channels stored.
- Press **OK** button to proceed. Use “◀” or “▶” button to set Fine Tune. When finished, press **OK** button again.

Managing Stations: Channel List

The TV sorts all stored stations in the Channel List. You can edit this channel list, set favourites or set active stations to be listed by using the Channel List options.

- Press **MENU** button to view main menu. Select Channel List item by using “◀” or “▶” button. Press **OK** to view menu contents.



Select **Edit Channel List** to manage all stored channels. Use “▼” or “▲” and **OK** buttons to select Edit Channel List.



NOTE: During TV operation, if you press the “OK” button, you’ll go directly to the “Edit channel list” menu.

Operating the Channel List



- Press “▼” or “▲” button to select the channel that will be processed. Press “◀” or “▶” button to select a function on Channel List menu.
- Use **P+/P-** buttons to move page up or down.
- Press **BLUE** button to view filtering options. You can filter channels by Digital Aerial/Analog, TV/Radio, Free/CAS*, A-Z or Sort from channel list filter menu (*CAS=encrypted channels).
- Press **MENU** button to exit.

Moving a Channel

- First select the desired channel. Select Move option in the channel list and press **OK** button.
- Edit Number screen will be displayed. Enter the desired channel number by using the numeric buttons on the remote control. If there is a previously stored channel on that number, a warning screen will be displayed. Select Yes if you want to move the channel and press **OK**.

Deleting a Channel

You can press **GREEN** button to tag/untag all channels; **YELLOW** button to tag/untag channel.

- Select the channel that you want to delete and select **Delete** option. Press **OK** button to continue.
- A warning screen will appear. Select **YES** to delete, select **No** to cancel. Press **OK** button to continue.

Renaming a Channel

- Select the channel that you want to rename and select **Edit Name** option. Press **OK** button to continue.
- Pressing “◀” or “▶” button moves to the previous/next character. Pressing “▼” or “▲” button toggles the current character, i.e., ‘b’ character becomes ‘a’ by “▼” and ‘c’ by “▲”.
- When finished, press **OK** button to save. Press **MENU** to cancel.

Locking a Channel

You can press **GREEN** button to tag/untag all channels; **YELLOW** button to tag/untag a single channel.

- Select the channel that you want to lock and select **Lock** option. Press **OK** button to continue.
- You will be asked to enter parental control PIN. Default PIN is set as **0000**. Enter the PIN number.



- The desired channel is locked (Lock symbol is displayed next to the selected channel) or unlocked.

Managing Stations: Favourites

You can create a list of favourite programmes.

- Press **MENU** button to view main menu. Select Channel List item by using “◀” or “▶” button. Press **OK** to view menu contents.
- Select **Favourites** to manage favourite list. Use “▼”/“▲” and **OK** buttons to select **Favourites**.
- You can set various channels as favourites so that only the favourite channels are navigated.



- Select a channel by using “▼” or “▲” button. Press **OK** button to add selected channel to favourites list. Press **OK** button again to remove.

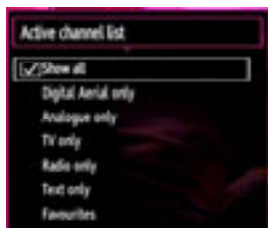
Button Functions

- **OK:** Add/remove a station.
- **YELLOW:** Tag/untag a channel. You can tag a channel to be operated using this function.
- **GREEN:** Tag/untag all channels. You can tag more than one channel to be operated using this feature.
- **BLUE:** Displays filtering options. You can view channels in accordance with the filter options you set.
- **MENU:** Exits the menu.

Managing Stations: Sorting Channel List

You can select broadcasts to be listed in the channel list. To display specific types of broadcast, you should use Active channel list setting.

Select Active channel list from the Channel list menu by using “▼” or “▲” button. Press **OK** button to continue.



You can select a broadcast type option from the list by using “▼” / “▲” and **OK** buttons.

On-Screen Information

You can press **INFO** button to display on-screen information. Details of the station and current programme will be displayed on the information banner.



The information banner gives information on the channel selected and the programmes on it. The name of the channel is displayed, along with its channel list number. *Hint: Not all channels broadcast the programme data. If the name and time of the programme are not available, then information banner will be displayed with blanks.*

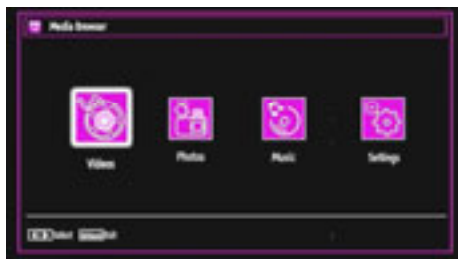
If the selected channel is locked, you must enter the correct four-digit numeric code to view the channel (default code is **0000**). “Enter PIN” will be displayed on the screen in such a case:

Media Playback Using Media Browser

To display Media Browser window, press either “**MENU**” button on the remote control and then select Media Browser by pressing “◀” or “▶” button. Press **OK** button to continue. Media Browser menu options will be displayed.

When you plug USB devices, media browser screen will be displayed automatically:

If the USB stick is not recognized power off/on the TV set.



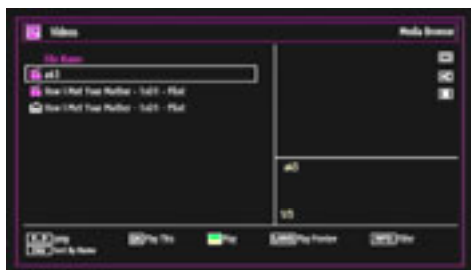
You can play music, picture and video files from the connected USB memory stick. Use “◀” or “▶” button to select Videos, Photos, Music or Settings.

You can plug in two USB devices at the same time to your TV. If both USB devices include music, images and video, the USB Selection screen appears. The USB device which is connected first to the TV set will known as a USB Drive 1.



Use the “▼” or “▲” button to select a device and press **OK**.

Viewing Videos via USB



When you select Videos from the main options, available video files will be filtered and listed on this screen. You can use “▼” or “▲” button to select a video file and press **OK** button to play a video.

Jump 0..9 (Numeric buttons): Jumps to the selected file.

Play This (OK button): Plays the selected file.

Play (GREEN button): Plays all media files

(LANG button): Display preview of the selected file with the selected one.

Filter (INFO button): Changes filter options.

Sort by name (FAV button): No function in video.

Playing Videos via USB



Play (RED button): Starts the video playback.

Stop (BLUE button): Stops the video playback.

Pause (OK button): Pause the video playback.

Rewind (◀ button): 2x 4x 8x 16x Goes backward.

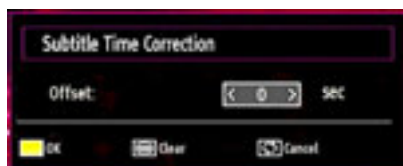
Forward (▶ button): 2x 4x 8x 16x Goes forward.

Subtitle/Audio (LANG. button): Sets subtitle/Audio.

Green (jump): Opens “Jump to sec./ Total time menu”. Jumps to the selected time.

Yellow: Opens subtitle time correction menu

GET/BACK : Goes to the previous menu



Change offset value if some synchron problem occur between picture and sound. If the problem is solved please press OK to clear. To cancel press cancel.

Press **RETURN (Exit)** button to switch back to previous menu.

Viewing Photos via USB

When you select Photos from the main options, available image files will be filtered and listed on this screen.



Jump (Numeric buttons): Jump to selected file using the numeric buttons.

OK: Views the selected picture in full screen.

Slideshow (GREEN button): Starts the slideshow using all images.

Loop/Shuffle (BLUE button): Press once to enable Loop. Press again to enable both Loop and Shuffle. Press once more to enable only Shuffle. Press again to disable all. You can follow the disabled functions with the change of the icons.

FAV: Sorts files by date.

TEXT: Views images in thumbnails.

INFO: You can change filter type by pressing info button. Filter type option can be set as photos, videos and music.

Slideshow Options



Zoom (RED button) : Enlarges and reduces the image. Using the ◀▶▼▲ buttons, the screen can be moved.

Pause (YELLOW button) : Pauses the slideshow.

Continue (GREEN button) : Continues the slideshow.

Zoom (RED button) : Zooms picture.

Previous/Next (◀ / ▶ buttons): Jumps to previous or next file on slideshow.

Rotate (▼ / ▲ buttons): Rotates the image using up/down buttons.

Loop/Shuffle (BLUE button): Press once to enable Loop. Press again to disable both Loop and Shuffle. Press once more to enable only Shuffle. Press again to enable all. You can follow the disabled functions with the change of the icons.

RETURN (Exit): Back to file list.

INFO: Displays information bar.

Playing Music via USB

When you select Music from the main options, available audio files will be filtered and listed on this screen.



0..9 (Numeric buttons): You can directly jump to a track by selecting the letters of the music title using the numeric buttons 0..9. So, for example by pressing twice of button “2” you can select the letter “E” (not available in view style: Folders; see Media Browser Settings).

Button	Occupancy
1	ABC
2	DEF
3	GHI
4	JKL
5	MNO
6	PQR
7	STU
8	VWX
9	YZ

Stop (RED button) : Stops playback.

Play (GREEN button) : Plays all media files starting with the selected one.

Pause (YELLOW button) : Pauses the selected playback.

Loop/Shuffle (Blue button): Press once to disable Loop. Press again to disable both Loop and Shuffle. Press once more to enable only Loop. Press again to enable all and again to deactivate all. By the change of the symbols you can see which feature is enabled.

INFO: Shows the filter type. Must be confirmed with the “MENU” button.

FAV: Sorts files by Title,Artist or Album..

Play This (OK button) : Plays the selected file.

Previous/Next (Left/Right buttons) : Jumps to previous or next file to play.

Media Browser Settings



You can set your Media Browser preferences by using the Settings dialog. Press “▼” or “▲” button to highlight an item and use “◀” or “▶” button to set.

View Style: Sets default browsing mode. Sets default browsing mode as folder or flat. Select “Directory” to display files in a folder or “Normal” to view files directly. If you select the view style “Directory” the menu point “All” will appear in the media browser (See the section: Media playback using media browser). The option “All” gives you an overview of the directories images, music, videos.

Slide Show Interval: Sets slide show interval time.

Show Subtitle: Sets subtitle enabling preference.

Subtitle Language: Sets supported subtitle language.

Subtitle Position: Sets subtitle position as up or down.

Subtitle Font Size: Sets subtitle font size (max. 54pt).

Changing Image Size: Picture Formats

- Programmes can be watched in different picture formats, depending on the transmission received.
- You can change the aspect ratio (image size) of the TV for viewing the picture in different zoom modes.
- Press **SCREEN** button repeatedly to change the image size. Available zoom modes are listed below.

Auto

When a **WSS (Wide Screen Signalling)** signal, which shows the aspect ratio of the picture, is included in the broadcast signal or the signal from an external device, the TV automatically changes the **ZOOM** mode according to the **WSS** signal.

- When the **AUTO** mode does not function correctly due to poor **WSS** signal quality or when you want to change the **ZOOM** mode, change to another **ZOOM** mode manually.

16:9

This uniformly stretches the left and right sides of a normal picture (4:3 aspect ratio) to fill the wide TV screen.




- For 16:9 aspect ratio pictures that have been squeezed into a normal picture (4:3 aspect ratio), use the **16:9** mode to restore the picture to its original shape.

Subtitle

This zooms up the wide picture (16:9 aspect ratio) with subtitles to the full screen.



 **NOTE:** You can shift the screen up or down by pressing “▼” / “▲” buttons while picture zoom is selected as *panoramic, 14:9 Zoom, Cinema or Subtitle*. This is only possible as long as the display of the screen format is displayed.

14:9

This zooms up the wide picture (14:9 aspect ratio) to the upper and lower limits of the screen.



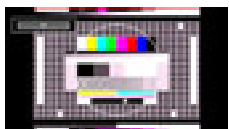
14:9 Zoom



This option zooms to the 14:9 picture.

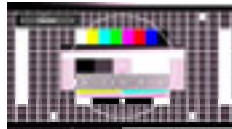
4:3

Use to view a normal picture (4:3 aspect ratio) as this is its original size.



Panoramic

This stretches the left and right sides of a normal picture (4:3 aspect ratio) to fill the screen, without making the picture appear unnatural.



The top and bottom of the picture are slightly cut off.

Cinema

This zooms up the wide picture (16:9 aspect ratio) to the full screen.



Configuring Picture Settings

You can use different picture settings in detail.

Press MENU button and select the Picture icon by using “◀” or “▶” button. Press **OK** button to view Picture Settings menu.



Operating Picture Settings Menu Items

- Press “▼” or “▲” button to highlight a menu item.
- Use “◀” or “▶” button to set an item.
- Press MENU button to exit.

Picture Settings Menu Items

Mode: For your viewing requirements, you can set the related mode option. Picture mode can be set to one of these options: **Cinema, Game, Dynamic** and **Natural**.

Contrast: Sets the lightness and darkness values of the screen.

Brightness: Sets the brightness value for the screen.

Sharpness: Sets the sharpness value for the objects displayed on the screen.

Colour: Sets the colour value, adjusting the colors.

Colour Shift: Adjust the desired colour tone.

Hue (NTSC only): Adjusts the colour value.

Colour Temp: Sets the desired colour tone.

Setting **Cool** option gives white colours a slight blue stress.

For normal colours, select **Normal** option.

Setting **Warm** option gives white colours a slight red stress.

Noise Reduction: If the broadcast signal is weak and the picture is noisy, use **Noise Reduction** setting to reduce the noise amount. Noise Reduction can be set to one of these options: **Low**, **Medium**, **High** or **Off**.

Game Mode: Game mode can be set as **On** or **Off**. When Game Mode is set to **On**, specific game mode settings, which are optimized for better video quality, will be loaded. Game mode is a special set of picture settings that is designed for a greater game experience. In game mode, colour and sharpness levels are enhanced in order to obtain live colours and sharpened edges. Dark areas are enhanced for a better perception of details.



NOTE: When Game Mode is on, some items in the Picture Settings menu will be unavailable to be set.

Picture Zoom: Sets the picture size to Auto, 16:9, Subtitle, 14:9, 14:9 Zoom, 4:3, Panoramic or Cinema.

Reset: Resets the picture settings to factory default settings.

HDMI True Black: While watching from HDMI source, this feature will be visible in the Picture Settings menu. You can use this feature to enhance blackness in the picture. You can set this feature as "On" for activating HDMI True Black mode.

While in VGA (PC) mode, some items in Picture menu will be unavailable. Instead, VGA mode settings will be added to the Picture Settings while in PC mode.

PC Picture Settings

For adjusting PC picture items, do the following:

Press "◀" or "▶" button to select Picture icon. Picture menu appears on the screen.

Contrast, Brightness, Colour, Colour Temp and Picture Zoom settings in this menu are identical to settings defined in TV picture menu under "Main Menu System".

Sound, Settings and Source settings are identical to the settings explained in main menu system.

PC Position: Select this to display PC position menu items.



Autoposition: Automatically optimizes the display. Press **OK** to optimize.

H Position: This item shifts the image horizontally to right hand side or left hand side of the screen.

V Position: This item shifts the image vertically towards the top or bottom of the screen.

Dot Clock: Dot Clock adjustments correct the interference that appear as vertical banding in dot intensive presentations like spreadsheets or paragraphs or text in smaller fonts.

Phase: Depending on the resolution and scan frequency that you input to the TV set, you may see a hazy or noisy picture on the screen. In such a case you can use this item to get a clear picture by trial and error method.

Back: Sets the PC image settings to factory defaults.

Configuring Sound Settings

Sound settings can be configured according to your personal preferences.

Press **MENU** button and select the second icon by using "◀" or "▶" button. Press **OK** button to view Sound Settings menu.



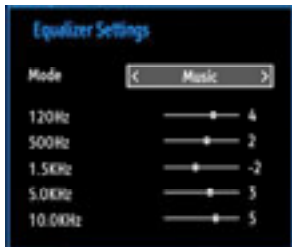
Operating Sound Settings Menu Items

- Press "▼" or "▲" button to highlight a menu item.
- Use "◀" or "▶" button to set an item.
- Press **MENU** button to exit.

Sound Settings Menu Items

Volume: Adjusts volume level.

Equalizer: Press **OK** button to view equalizer sub-menu.



In equalizer menu, the preset can be changed to **Music**, **Movie**, **Speech**, **Flat**, **Classic** and **User**. Press the **MENU** button to return to the previous menu.

Note: Equalizer menu settings can be changed manually only when the **Equalizer Mode** is in **User**.

Balance: This setting is used for emphasizing left or right speaker balance.

Headphone: Sets headphone volume.

AVL: Automatic Volume Limiting (AVL) function sets the sound to obtain fixed output level between programmes (For instance, volume level of advertisements tend to be louder than programmes).

Dynamic Bass: Dynamic Bass is used to increase bass effect of the TV set.

Surround Mode: Surround mode can be change as On or Off.

Digital Out: Sets digital out audio type.

· PCM: Uncompressed audio.

· Compressed: compressed audio (DD,DD+,AC3,AC3-HE)

Configuring Your TV's Settings

Detailed settings can be configured to suit your personal preferences.

Press **MENU** button and select Settings icon by using “◀” or “▶” button. Press **OK** button to view Settings menu.



Operating Settings Menu Items

- Press “▼” or “▲” button to highlight a menu item.
- Press **OK** button to select an item.
- Press **MENU** button to exit.

Settings Menu Items

Conditional Access: Controls conditional access modules when available.

Language: Configures language settings.

Parental: Configures parental settings.

Timers: Sets timers for selected programmes.

Date/Time: Sets date and time.

Sources: Enables or disables selected source options.

Other Settings: Displays other setting options of the TV set.

Using a Common Interface Module



IMPORTANT: Insert or remove the CI module only when the TV is SWITCHED OFF.

- In order to watch certain digital channels, a common interface module (CI module) can be necessary. This module must be inserted in the CI slot of your TV. To be able to watch scrambled digital channels you will need a common interface module from the Service Provider of your choice. The Service Provider is the programme distributor. If you are subscribing to services from more than one Service Provider, you might have to change between different common interface modules.
- Obtain the common interface module and the viewing card by subscribing to a pay channel company, then insert those to the TV using the following procedure.
- Insert the CI module and then the viewing card to the slot that is located in the terminal cover at the left side of the TV.
- The CI module should be correctly inserted, it is impossible to insert fully if reversed. The CI module or the TV terminal may be damaged if the CI module is forcefully inserted.

Connect the TV to the mains supply, switch on and then wait for few moments until the card is activated.

- When no module is inserted, “**No CI module detected**” message appears on the screen.
- Refer to the module instruction manual for details of the settings.

Viewing Conditional Access Menu

These menu settings may change depending on the service provider.

The Smartcard may also provide access to special menus not described in this manual. If so, please follow the instructions from the Service Provider. Only “free to air” channels are available without the Smartcard.

Smart card is provided by the service provider. After inserting the card, always keep in the smartcard socket. Do not remove by your service provider stated again. This is important, because the service server to upload new information into the smart card, the card holder must be.

Press **MENU** button and select the icon by using “◀” or “▶” button. Press **OK** button to view Settings menu. Use “▼” or “▲” button to highlight **Conditional Access** and press **OK** to view menu items.

Configuring Language Settings

You can operate the TV’s language settings using this menu.

Press **M** button and select the settings icon by using “◀” or “▶” button. Press **OK** button to view Settings menu. Use “▼” or “▲” button to highlight **Language** and press **OK** to continue:



Use “▼” or “▲” button to set an item and change the Option with “◀” or “▶” button. Settings are stored automatically.

Menu: displays the system language.

Preferred

These settings will be used if available. Otherwise the current settings will be used.

- **Audio:** Sets the preferred audio language.
- **Subtitle:** Sets the subtitle language. Selected language will be seen in subtitles.
- **Teletext:** Sets teletext language.
- **Guide:** Sets the preferred Guide language.

Current

These settings can be changed if only the broadcaster supports. Otherwise, settings will not be available to be changed.

Audio: Changes the audio language for the current channel.

- **Subtitle:** Sets the subtitle language for the current channel.

Parental Control

To prohibit viewing of certain programmes, channels and menus can be locked by using the parental control system.

This function enables or disables the menu protection system and allows the PIN code to be changed.

Press **M** button and select the Settings icon by using “◀” or “▶” button. Press **OK** button to view Settings menu. Use “▼” or “▲” button to highlight **Parental** and press **OK** to continue:



To display parental lock menu options, PIN number should be entered. Factory default PIN number is **0000**. After coding the correct PIN number, parental settings menu will be displayed:



Parental Settings Menu Operation

- Select an item by using “▼” or “▲” button.
- Use “◀” or “▶” button to set an item.

Menu Lock: Menu lock setting enables or disables the menu access. You can disable access to the installation menu or the whole menu system.

Maturity Lock: When set, this option gets the maturity information from the broadcast and if this maturity level is disabled, disables access to the broadcast.

Child Lock: When Child Lock is set, the TV can only be controlled by the remote control. In this case the control panel buttons will not work, except for the Standby Off/On button. When Child Lock is activated you are able to switch the TV into Standby mode with the Standby Off/On button. To switch the TV on again, you need the remote control. Hence, if one of those buttons is pressed, **Child Lock Is On** will be displayed on the screen when the menu screen is not visible.

Set PIN: Defines a new PIN number. Press “OK” and use numeric buttons to enter a new pin number. You will need to enter your new pin a second time for verification purposes.



IMPORTANT: The factory default pin number is **0000**, if you change the pin number make sure you write it down and keep it safe.

Timers

While in Timer menu, you can set Sleep Timer or add Timer to watch the desired channel.

To view Timers menu, press **M** button and select Settings icon by using “◀” or “▶” button. Press **OK** button to view Settings menu. Use “▼” or “▲” button to highlight Timers and press **OK** to continue:

Setting Sleep Timer

This setting is used for setting the TV to turn off after a certain time.

- Highlight Sleep Timer by using “▼” or “▲” button.
- Use “◀” or “▶” button to set. The timer can be programmed between **Off** and **2.00** hours (120 minutes) in steps of 30 minutes.

Setting Programme Timers

You can use this function to set start and end time manually. The device switches automatically to the selected channel and outputs it via SCART (For external recording).

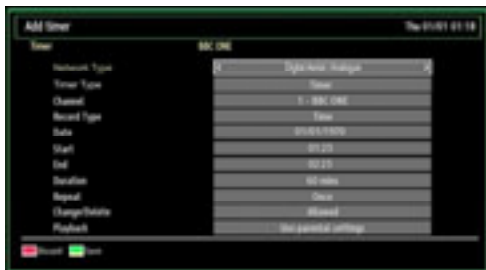


NOTE: For the function “Programme Timer” the TV device must be switched on.

Press “▼” button to set timers on an event. Programme timer function buttons will be displayed on the screen.

Adding a Timer

- Press **YELLOW** button on the remote control to add a timer. The following menu appears on the screen:



Network type: This feature is unavailable to be set.

Timer Type: This feature is unavailable to be set.

Channel: Changes network type by using “◀” or “▶”.

Record Type: This item is unavailable to be set.

Date: Enter a date using the numeric buttons.

Start: Enter a starting time using the numeric buttons.

End: Enter an ending time using the numeric buttons.

Duration: Displays duration between the starting and ending time.

Repeat: Sets a timer to be repeated as Once, Daily or Weekly. Use “◀” or “▶” buttons to select an option.

- Press **GREEN** button to save the timer. Press **RED** button to cancel.

Change/Delete: Controls parental settings on timers.

Editing a Timer

- Select the timer you want to edit by pressing “▼” or “▲” button.
- Press **GREEN** button. Edit Timer menu screen will be displayed.
- When finished with editing, press **GREEN** button to save. You can press **M** or **RED** button to cancel.

Deleting a Timer

- Select the timer you want to delete by pressing “▼” or “▲” button.
- Press **RED** button.
- Select **YES** by using “◀” or “▶” buttons to delete the timer. Select **NO** to cancel.

Configuring Date/Time Settings

Select **Date/Time** in the Settings menu to configure Date/Time settings. Press **OK** button.



The options date, time are set automatically, the options time and time zone settings can be changed.

Use “▲” or “▼” buttons to highlight the Time Settings Mode. Time Settings Mode is set using “◀” or “▶” buttons. It can be set to AUTO or MANUAL.

When AUTO is selected, Date/Time and Time Zone options will not be available to be set. If MANUAL option is selected the Time Zone can be altered:

- By pressing “▲” or “▼” buttons select Time Zone.

Use “◀” or “▶” buttons to change the Time Zone between GMT-12 or GMT+12. Date/Time on the top of the menu list will then change according to the selected Time Zone.

- Changes are automatically stored. Press **MENU** to exit.

Configuring Source Settings

You can enable or disable selected source options. The TV will not switch to the disabled source options when **SOURCE** button is pressed.



- Select **Sources** in the Settings menu and press **OK** button.
- Press “▼” or “▲” buttons to select a source.
- Use “◀” or “▶” button to enable or disable the selected source. Changes are automatically stored.

Configuring Other Settings

To view general configuration preferences, select **Other Settings** in the Settings menu and press **OK** button.




Operation

- Press “▼” or “▲” buttons to select an item.
- Use “◀” or “▶” button to set an option.
- Press **OK** button to view a sub-menu.

Menu Timeout: Changes timeout duration for menu screens.

Scan Encrypted: When this setting is on, search process will locate the encrypted channels as well. If it is set as **Off**, encrypted channels will not be located in automatic search or manual search.

Backlight: This setting controls the backlight level and it can be set to Auto, Minimum, Medium and Maximum..

 **Note:** Backlight function will be not able to change if Power Save Mode is set to on.

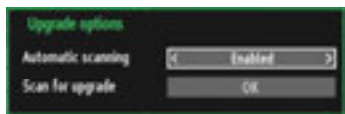
Power Save Mode: Use “▼” or “▲” button to select Power Save Mode. Press “◀” or “▶” button to set Power Save Mode as On or Off. See the section, “Environmental Information” in this manual for further information on Power Save Mode.

Note : Backlight function will be invisible if Power Save Mode is set to on.

Blue Background: Activates or deactivates blue background system when the signal is weak or absent.

Software Upgrade: To ensure that your TV always has the most update information, you can use this setting.

In order to have the update automatically the unit must be on standby. Open the submenu upgrade options with the OK button.



You can enable or disable automatic upgrade by setting **Automatic Scanning** option.

You can manually search for new software by selecting **Scan for upgrade**.

Hard of Hearing: If the broadcaster enables any special signal concerning the audio, you can set this setting as On to receive such signals.

Audio Description: Audio description refers to an additional narration track for blind and visually impaired viewers of visual media, including television and movies. The description narrator talks through the presentation, describing what is happening on the screen during the natural pauses in the audio (and sometimes during dialogue, if deemed necessary). You can use this feature, only if the broadcaster supports that additional narration track.

Auto TV Off: You can set the timeout value of auto off feature. If during this time, no control command is transmitted to the TV, it turns off.

Broadcast Type:

This feature is available to be set when there are different broadcast types.

When you set the desired broadcast type by using “◀” or “▶” button, the TV will display the related channel list. If the related source has not stored any channels,

“No channels for this type have been found.” message will be displayed on the screen.

Standby Search

If the Standby Search is set to On, when the TV is in standby mode, available broadcasts will be searched. If the TV locates any new or missing broadcasts, a menu screen will be displayed, asking you whether or not to execute these changes.

Use “▼” or “▲” button to select Standby Search and then press “◀” or “▶” button to set this setting as On or Off. If you change Standby Search to Off, this function will be unavailable. To use Standby search please make sure that you select Standby Search as On.

Other Features

Displaying TV Information: Programme Number, Programme Name, Sound Indicator, time, teletext, channel type and resolution information is displayed on the screen when a new programme is entered or “INFO” button is pressed.

Mute Function: Press “✕” button to disable sound. Mute indicator will be displayed in the upper side of the screen. To cancel mute, there are two alternatives; the first one is pressing the “✕” button and the second one is increasing the volume level.

Picture Mode Selection: By pressing **PRESETS** button, you can change **Picture Mode** settings in accordance with your viewing requirements. Available options are Dynamic, Natural, Cinema and Game.

Displaying Subtitles: You can enable subtitles by pressing the **SUBTITLE** button of the remote control. Press **SUBTITLE** button again to disable subtitle function.


Screen: If you want to change screen format directly, please press screen button on the remote control.

Sleep: You can set sleep timer by pressing sleep button.

Teletext

Teletext system transmits information such as news, sports and weather on your TV. Note that if the signal degrades, for example in poor/adverse weather conditions, some text errors may occur or the teletext mode may be aborted.


Teletext function buttons are listed below:

 **Teletext / Mix** : Activates teletext mode when pressed once. Press again to place the teletext screen over the programme (mix). Pressing again will quit the teletext mode.

“RETURN” Index: Selects the teletext index page.

“INFO/?”Reveal: Shows hidden information (e.g. solutions of games).

“OK” Hold: Holds a text page when convenient. Press again to resume.

 **Subcode Pages** : Selects subcode pages if available when the teletext is activated.

P+ / P- , ▼ / ▲ and numbers (0-9): Press to select a page.



NOTE: Most TV stations use code 100 for their index pages.

Coloured Buttons (RED/GREEN/YELLOW/BLUE)

Your TV supports both **FASTTEXT** and **TOP text** systems. When these systems are available, the pages are divided into groups or topics. When **FASTTEXT** system is available, sections in a teletext page will become colour-coded and can be selected by pressing the coloured buttons. Press a coloured button that corresponds to with your needs. The coloured writings will appear, showing you which coloured buttons to use when **TOP text** transmission is present. Pressing “▼” or “▲” commands will request the next or previous page respectively.

Tips

Screen Care: Clean the screen with a slightly damp, soft cloth. Do not use abrasive solvents as they may damage the coating layer of the TV screen. For your safety, unplug the mains plug when cleaning the set. When moving the TV, hold it properly from the bottom part.


Image Persistence: Please note that ghosting may occur while displaying a persistent image. LCD TVs' image persistence may disappear after a short time. Try turning off the TV for a while.

To avoid this, do not leave the screen in still picture for extended periods.

No Power: If your TV system has no power, please check the main power cable and connection to the mains socket outlet.

Poor Picture: Have you selected the correct TV system? Is your TV set or house aerial located too close to a non-earthed audio equipment or neon lights, etc.? Mountains or high buildings can cause double pictures or ghost images. Sometimes you can improve the picture quality by changing the direction of the aerial. Is the picture or teletext unrecognisable? Check if you have entered the correct frequency. Please retune the channels. The picture quality may degrade when two peripherals are connected to the TV at the same time. In such a case, disconnect one of the peripherals.

No Picture: Is the aerial connected properly? Are the plugs connected tightly to the aerial socket? Is the aerial cable damaged? Are suitable plugs used to connect the aerial? If you are in doubt, consult your dealer. No Picture means that your TV is not receiving a transmission. Have you selected the correct button on the remote control? Try once more. Also make sure the correct input source has been selected.

Sound: You can not hear any sound. Did you perhaps interrupt the sound, pressing the  button? Sound is coming from only one of the speakers. Is the balance set to one extreme? See **Sound Menu**.

Remote Control: Your TV no longer responds to the remote control. Perhaps the batteries are exhausted. If so you can still use the local buttons on the TV* (* This is only possible if they are not blocked by maturity lock).

Input Sources: If you cannot select an input source, it is possible that no device is connected. Check the AV cables and connections if you have tried to connect a device

Appendix A: PC Input Typical Display Modes

The display has a maximum resolution of 1920x1080. The following table is an illustration of some of the typical video display modes. Your TV may not support different resolutions. Supported resolution modes are listed below. If you switch your PC to an unsupported mode, a warning OSD will appear on the screen.

Index	Resolution	Frequency
1	640x400	70 Hz
2	640x480	60 Hz
3	640x480	75 Hz
4	800x600	60 Hz
5	800x600	75 Hz
6	1024x768	60 Hz
7	1024x768	70 Hz
8	1024x768	75 Hz
9	1152x864	75 Hz
10	1280x768	60 Hz
11	1280x1024	60 Hz
12	1360x768	60 Hz

Appendix B: AV and HDMI Signal Compatibility (Input Signal Types)

Source	Supported Signals		Available
EXT-1 (SCART 1)	PAL 50/60		O
	NTSC 60		O
	RGB 50		O
	RGB 60		O
EXT-2 (SCART-2)	PAL 50/60		O
	NTSC 60		O
	RGB 50		X
	RGB 60		X
YPbPr	480I	60Hz	O
	480P	60Hz	O
	576I	50Hz	O
	576P	50Hz	O
	720P	50Hz	O
	720P	60Hz	O
	1080I	50Hz	O
	1080I	60Hz	O
	1080P	50Hz	O
	1080P	60Hz	O
HDMI1 HDMI2 HDMI3 HDMI4	480I	60Hz	O
	480P	60Hz	O
	576I	50Hz	O
	576P	50Hz	O
	720P	50Hz	O
	720P	60Hz	O
	1080I	50Hz	O
	1080I	60Hz	O
	1080P	50Hz	O
	1080P	60Hz	O
	1080P	24 HZ	O

(X: Not Available, O: Available)

In some cases a signal on the LCD TV may not be displayed properly. The problem may be an inconsistency with standards from the source equipment (DVD, Set-top box, etc.). If you do experience such a problem please contact your dealer and also the manufacturer of the source equipment.

Appendix C: Supported File Formats for USB Mode

Supported Players			
Player	Stream	Video Decoder (MSVD)	Audio Decoder (MSAD)
Audio	MP3	None	MP3
Audio	WAV/AIFF	None--	LPCM
Windows Media (optional)	WMA / ASF	VC1	WMA
MPEG1 Program Stream	MPEG-1	MPEG1	MP3, AC-3 and PCM
MPEG2 Program Stream	MPEG-2	MPEG2	MP3, AC-3 and PCM
MPEG4	MPEG-4/H264 in MP4 container	H264 and MPEG4	AAC
AVI (Xvid)	XVID	MPEG2	MP3, AC-3 and PCM

Appendix E: Software Upgrade

- Your TV is capable of finding and updating new software upgrades over broadcast channels.
- For broadcast channels search, TV looks the available channels stored in your settings. So before software upgrade search, it is advised to auto search and update all available channels.



Note: The software updates over DVB-T reception is not possible in all regions. Turn off the "Automatic Search" in order to prevent the TV turns on every night at 3 clock to check for updates.

1) Software upgrade search via user interface

- It is possible manually to check if there is a new software upgrade for your TV set.
- Simply navigate on your main menu. Choose **Settings** and select **Other Settings** menu. In **Other Settings** menu navigate on to the **Software Upgrade** item and press **OK** button to open **Upgrade Options** menu.
- In **Upgrade Options** menu select **Scan for upgrade** and press **OK** button.
- If a new upgrade is found, it starts to download the upgrade. A progress bar indicates the remaining download progress. When download completes with success a message is displayed for reboot to activate new software. Press **OK** to continue with the reboot operation.

2) 3.AM search and upgrade mode

- If **Automatic scanning** in **Upgrade Options** menu is enabled, TV wakes up at 03:00 and searches broadcast channels for new software upgrade. If new software is found and downloaded successfully, with next power up TV opens with new software version.

Note on reboot operation: Reboot is the last step in software upgrade operation if download of new software is finished successfully. During reboot TV makes final initializations. In reboot sequence panel power is closed and front led indicates the activity with blinking. Around 5 minutes later TV restarts with new software activated.

- If your TV fails to restart in 10 minutes, unplug power for 10 minutes and re-plug again. TV should open with new software safely. If you still can not get TV working, please kindly repeat unplug and plug sequence a few times more. If your set still can not operate, please call the service personnel to fix the problem for you.

Caution: While led is blinking during reboot do not unplug your TV's power. Doing this may cause your TV not to re-open again and can only be fixed by service personnel.

Specifications

TV BROADCASTING

PAL/SECAM B/G D/K K' I/I' L/L'

RECEIVING CHANNELS

VHF (BAND I/III)

UHF (BAND U)

HYPERBAND

NUMBER OF PRESET CHANNELS

1000

MAX. HEADPHONE OUTPUT VOLTAGE

approx. 175 mV

CHANNEL INDICATOR

On Screen Display

RF AERIAL INPUT

75 Ohm

OPERATING VOLTAGE

220-240V AC, 50 Hz.

AUDIO

German + Nicam Stereo

AUDIO OUTPUT POWER (W_{RMS}) (10% THD)

2 x 8

POWER CONSUMPTION (W)

150 W (max)

< 1 W (Standby)

PANEL

16:9 display, 80,1 cm (32") Screen Size

DIMENSIONS (mm)

WxHxD (With foot): 776x567x188

Weight (kg): about 11,6

WxHxD (Without foot): 776x523x94

Weight (kg): 9,35

OUTPUT/INPUT CONNECTIONS

4 x HDMI

2 x Scart

2 x USB

1 x PC / VGA

1 x Digital Audio out (coaxial)

1 x 3,5 mm headphones

1 x CI - Slot

1 x Video input

1 x YPbPr (YUV)

2 x Audio L, R in

1 x Aerial

Digital Reception (DVB-T)

Transmission Standards:

DVB-T, MPEG2, MPEG4 HD

i. DEMODULATION

- Symbol rate: COFDM with 2K/8K FFT mode.
- Modulation: 16-QAM - 64-QAM FEC for all DVB modes (automatically found)
- MHEG-5 ENGINE compliant with ISO/IEC 13522-5 UK engine Profile (UK only)
- Object carousel support compliant with ISO/IEC 135818-6 and UK DTT profile(UK only)
- Frequency range: 474-850 MHz for UK models

ii. VIDEO

- H.264 (MPEG-4 part 10) main and high profile level 4.1/MPEG-2 MP@HL video decoder.
- HD display multi format capable (1080i, 720p, 576p)
- CVBS analogue output.(In HD channels, this will not be available)

iii. AUDIO

- MPEG-1 layer I/II, MPEG-2 layer II, AAC, HEAAC, AC3, E-AC3
- Sampling frequencies supported are 32, 44.1 & 48 kHz

Information to the conformity

Television model LCD-TV32111 conforms to the following standards:

With respect to its compliance with the basic requirements and relevant regulations, this device conforms to the EMV directive 2004/108/EC as well as the directive 2006/95/EC for low-voltage devices. Eco design requirements (2009/125/EC according to regulation No. 642/2009).

EN 55013: 2001 + A1:2003 + A2:2006

EN 55020: 2007

EN 61000-3-2:2006

EN 61000-3-3: 1995 + A1:2001 + A2:2005

EN 60065: 2002 + A1:2006

EN 55022:2006*

EN 55024:1998 + A1:2001 + A2:2003*

(*only for VGA Mode)

Imported by: VESTEL GERMANY GmbH Parking 6
D-85748 Garching b. München
Germany

WARNING

This is a Type A product. In a domestic environment it could cause radio interference, in which case it may require the user to take appropriate action.

Definitions of Important Terms

Aspect Ratio

This refers to the ratio of the width to the height of a picture.

AVL

Automatic volume limiter.

Brightness

This defines the overall light level of the entire image.

Contrast

This will adjust the range of optical density and tone of the complete picture.

Component Audio Inputs

Used for the standard analog audio for interconnection of components.

Component Video Inputs (Y/Pb/Pr)

This video signal consist of colour differences and a luminance signal.

HDMI

High Definition Multimedia Interface. This connection provides high-quality, uncompressed digital video and audio, combining both audio and video signals via a single connection.

NTSC

United States' standard for scanning television signals that has been adopted by some other countries.

OSD

On Screen Display. Information, like channel number and volume on the screen of a TV.

PAL

The European TV standard for scanning television signals.

Scart

A 21-pin audio/video connector found primarily on European televisions.

Sharpness

A control that creates the effect of greater resolution by light to dark transitions.

System

Defines the broadcast type of the TV picture since these broadcast systems are not same for all countries.

VGA

VGA is a common standard graphics display system for PCs.

SECAM

The video format used in France and some other countries, similar to PAL.

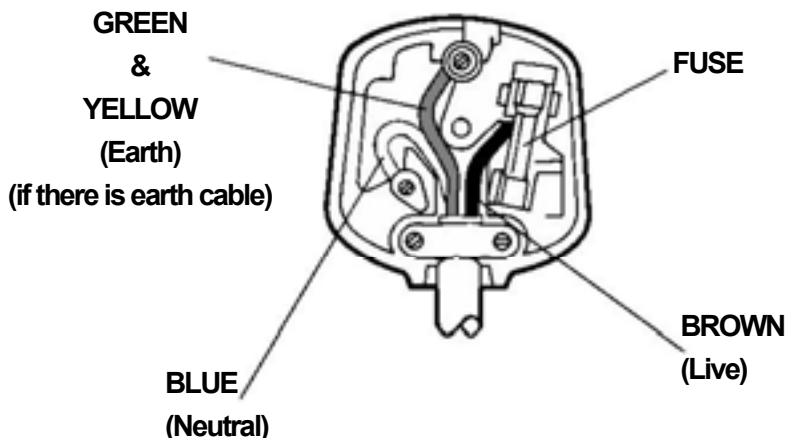
Important Instruction

"Important! For qualified service personnel only!"

For your own safety read following instruction carefully before attempting to connect this unit to the mains supply.

MAINS (AC) OPERATION

The wires in the mains lead are coloured in accordance with the following code :



IMPORTANT

As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured green and yellow must be connected to the terminal which is marked with the letter E, or by the earth symbol, or coloured green or green and yellow.

The wire which is coloured blue or black must be connected to the terminal which is marked with the letter N or coloured Black.

The wire which is coloured brown or red must be connected to the terminal which is marked with the letter L or coloured Red.

For continued protection against risk of fire, replace only with same type and rating of fuse (ASTA approved 5A 250VAC fuse).

CAUTION

TO PREVENT ELECTRIC SHOCK DISCONNECT FROM THE MAINS BEFORE REMOVING COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

SAFETY PRECAUTION

THIS EQUIPMENT MUST BE DISCONNECTED FROM THE MAINS WHEN NOT IN USE. DO NOT ALLOW THIS UNIT TO BE EXPOSED TO RAIN OR MOISTURE.

Manufacturer's guarantee **IE**

We are glad that you have decided to buy one of our products and hope you have a great deal of fun with this high-quality product. Our strict production control guarantees the high quality of our devices. However, if you should have just cause for complaint, we grant you a guarantee for a period of

3 years

from purchase date with the following conditions:

1. This guarantee leaves your statutory warranty claims as a consumer unaffected vis-à-vis the party who sold the device. These rights are not restricted by the manufacturer's guarantee issued by us.
2. The guarantee granted by us is only valid for the private use of the device and is restricted to the territory of Northern Ireland and Eire.
3. The period of guarantee is 3 years from the purchase date.
4. During the period of guarantee, our specified performance includes, at our discretion, the repair of your device or its replacement by an equivalent device, the wages incurred for us, the material costs and the transport costs of the device within Northern Ireland and Eire.
5. To lodge your complaint, please contact us at the following service number:



We recommend that you keep the original packaging in order to ensure the secure transport of the device in the event that you assert the guarantee. A short description of your complaint is not only very helpful to us but supports the quick repair and return delivery of the device. We recommend in advance that you call our hotline.

6. You must keep your proof of purchase. It is sufficient if you return the original till receipt with the device. Without proof of purchase, we unfortunately cannot provide the specified performances free-of-charge. If we receive a device without proof of purchase, we will send you a cost estimate for the repair. If you decide against a repair, we will return the device and charge you a set fee for transport and for the processing of the cost estimate.

Important document! Please retain the proof of purchase for 3 years.

7. Exchanged parts are kept in our service centre and are destroyed at our discretion.
8. The guarantee becomes invalid if the device has been opened by you or by a third person not authorized by us and/or if modifications have been made to the device.
9. A guarantee claim does not exist:
 - in cases of improper care
 - in cases of mechanical damages to the device from outside
 - in the case of transport damages
 - in the case of wear and tear
 - in the case of handling errors
 - if the device has been set up in damp rooms or in the open air
 - for damage that has been caused by force majeure, water, lightning, over-voltage
 - in cases of excessive use, especially for use other than private
 - in cases where the operating instructions have been falsely observed.
 - if the device does not have any technical defects.
 - if there are pixel errors that lie within the tolerances specified in ISO standard 9241-307:2008-11 (pixel error class II).
10. The guarantee does not include any further liability on our part, in particular, it does not include the liability for damages that have not occurred on the device itself or that occur due to the breakdown of the device until repair (e.g. shipping costs, handling costs, etc.). However, our statutory liability, in particular with respect to the product liability law, is not restricted or excluded hereby.
11. Warranties granted by us do not extend the period of guarantee of 2 years from purchase date, not even with regard to components which may have been changed.
12. To validate your claim and to ensure the quickest possible processing of it, please always send us the entire package contents including all accessories. (e.g. remote control, supports, wall brackets, A/V cable, etc.)

We wish you lots of fun with your new device!